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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/520,473	04/27/2005	Hee-Sub Park	22046/09005	6845
27530	7590 06/13/2006		EXAMINER	
NELSON MULLINS RILEY & SCARBOROUGH, LLP 1320 MAIN STREET, 17TH FLOOR			TURNER, ARCHENE A	
COLUMBIA, SC 29201			ART UNIT	PAPER NUMBER
			1775	

DATE MAILED: 06/13/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/520,473	PARK ET AL.	
Office Action Summary	Examiner	Art Unit	_
	Archene Turner	1775	_
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut. Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from the course the application to become ABANDO	ON. timely filed om the mailing date of this communication. NED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 27 A	April 2005.		
2a) ☐ This action is FINAL . 2b) ☑ This	s action is non-final.		
3) Since this application is in condition for allowa	ance except for formal matters, p	prosecution as to the merits is	
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11,	453 O.G. 213.	
Disposition of Claims			
4) ☐ Claim(s) 8-17 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 8-17 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	awn from consideration.		
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acceptable and any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	cepted or b) objected to by the drawing(s) be held in abeyance. Setion is required if the drawing(s) is a	See 37 CFR 1.85(a). Objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list 	ts have been received. ts have been received in Applica prity documents have been recei uu (PCT Rüle 17.2(a)).	ation No ved in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 4/05.	4) Interview Summa Paper No(s)/Mail 5) Notice of Informal 6) Other:		

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Art Unit: 1775

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 10,12,14,15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 10 & 12 the phrases "titanium-based", "aluminum-based" and 'nickel-based" renders the claims indefinite.

In claim 14 & 5 it is unclear what the weight percentage is relative to.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 8-9,11,13-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Yao et al (5,830,813).

Yao et al discloses the claimed cBN composite with the claimed matrix on the claimed WC/CO substrate and the claimed method of making.

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

6. Claims 10,12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yao et al (as above) in view of English translation of the abstract of KR 2001004887.

Yao et al discloses the invention as claimed except for the claimed amount of Ti, Al, Ni in the cBN composite.

Abstract of KR 2001004887 discloses the claimed amount of Ti, Al, and Ni in a cBN composite.

Thus it would have been obvious to one of ordinary skill in the art to provide the cBN composite of Yao et al with the claimed cBN composite of KR 2001004887, as this composite provides for improved performance.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Archene Turner whose new telephone number is (571) 272-1545. The examiner can normally be reached on Monday, Wednesday through Friday from 10:30 am. to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jennifer McNeil can be reached on (571) 272-1540. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Please remember to include on the fax, the art unit 1775, serial number and Examiner's name.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A. A. Turner Primary Examiner Group 1700

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